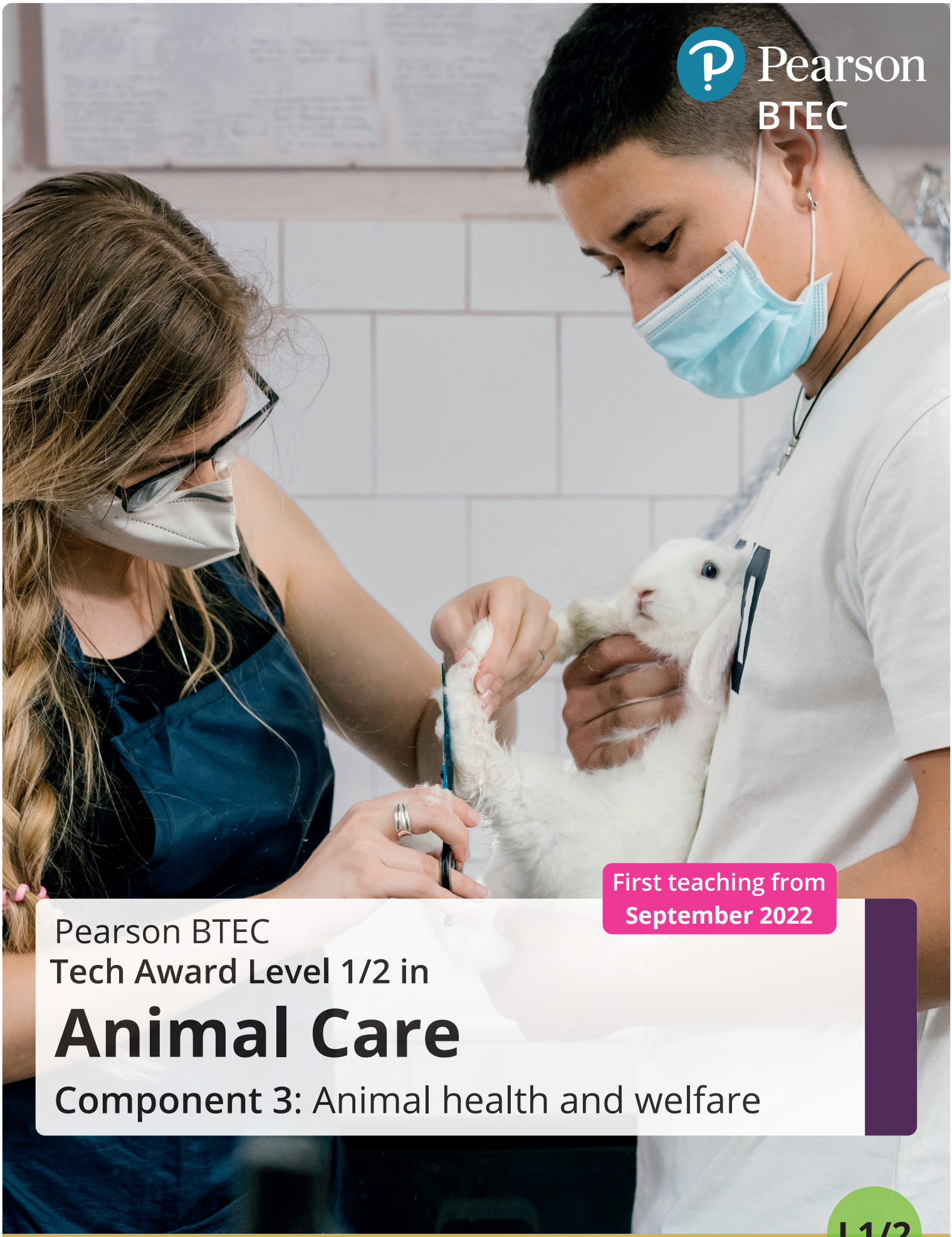

First teaching from September 2022

Pearson BTEC
Tech Award Level 1/2 in

Animal Care

Component 3: Animal health and welfare

L1/2

Sample Assessment Materials

First teaching from September 2022; First Certification Summer 2024

Issue 2

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Summary of Pearson BTEC Level 1/2 Tech Award in Animal Care Sample Assessment Materials for Component 3: Animal Health and Welfare Issue 2 changes

Summary of changes made between previous issues and this current issue	**Page number**
In the *Exam paper* Question 3 has been amended from 'Which **one** of the following is a single-celled organism?' to 'Which of these is not a living cell?' and Distractor C has been amended from 'Ectoparasite' to 'Endoparasite' for accuracy.	Page 2
In the *Sample mark grid* section for Question 3 the Answer has been amended from 'D – Bacterium' to 'A – Virus'.	Page 15
In the *Sample mark grid* section for Question 11 the first bullet point was amended from 'Raise awareness (of endangered species) (1) so that people can donate to support the charity (1)' to 'Manage breeding programmes (1) to increase population size/diversity (1)' for clarity.	Page 17
In the *Sample mark grid* section for Question 14a bullet points three and four were merged to read 'ring-shaped rash/red circular lesions (1)' for clarity.	Page 18
In the *Sample mark grid* section for question 16 the Levels 1 and 2 descriptors' wording was amended slightly for clarity.	Page 20
In the *Sample mark grid* section for Question 20 the last bullet point 'Suffer from anaemia (1) due to abscesses in body (1)' was removed.	Page 22

If you need further information on these changes or what they mean, contact us via our website at: qualifications.pearson.com/en/support/contact-us.html.

Contents

Exam Paper 1

Sample Mark grid 13

Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | | | | | | |

Learner Registration Number | | | | | | | | | |

Pearson BTEC Level 1/Level 2 Tech Award

Sample assessment materials for first teaching September 2022

Time 2 hours

Paper reference XXXXX/XX

Animal Care

COMPONENT 3: Animal Health and Welfare

You do not need any other materials.

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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1/1

S 7 2 4 9 8 A 0 1 1 2

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Answer ALL questions. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Which **one** of the following is a sign of good health in dogs?

- ☒ **A** Hunched posture
- ☒ **B** Shiny coat
- ☒ **C** Shallow breathing
- ☒ **D** Loose faeces

(Total for Question 1 = 1 mark)

2 Which **one** of the following would likely cause loss of fur in cats?

- ☒ **A** Exercise
- ☒ **B** Stress
- ☒ **C** Excessive feeding
- ☒ **D** Urine infection

(Total for Question 2 = 1 mark)

3 Which of these is not a living cell?

- ☒ **A** Virus
- ☒ **B** Fungus
- ☒ **C** Endoparasite
- ☒ **D** Bacterium

(Total for Question 3 = 1 mark)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

4 Which **one** of the following methods of disease transmission happens through contact with infection on food bowls?

- ☒ **A** Airborne
- ☒ **B** Direct contact
- ☒ **C** Indirect contact
- ☒ **D** Vector

(Total for Question 4 = 1 mark)

5 Which **two** of the following are reasons why animals live inside the domestic home?

- ☒ **A** Companionship
- ☒ **B** Meat production
- ☒ **C** Conservation
- ☒ **D** Therapy
- ☒ **E** Racing

(Total for Question 5 = 2 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

6 Give **two** signs of ill health seen in animals' eyes.

1 .....

.....

2 .....

.....

(Total for Question 6 = 2 marks)

7 Give **two** examples of how a dog with an excellent sense of smell can be used by public service providers.

1 .....

.....

2 .....

.....

(Total for Question 7 = 2 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

8 Toby is a two-year-old male cat who is going to be castrated.

(a) Give the appropriate veterinary method of removing the cat's testicles to castrate him.

(1)

.....

.....

(b) Explain **one** reason for carrying out castration on a cat.

(2)

.....

.....

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.....

(Total for Question 8 = 3 marks)

9 Give **two** physical health checks carried out on an animal.

1 .....

.....

2 .....

.....

(Total for Question 9 = 2 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

10 Give **two** reasons why it is important to regularly clean animal housing.

1 .....

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2 .....

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(Total for Question 10 = 2 marks)

11 Explain **one** way a conservation organisation supports animals.

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(Total for Question 11 = 2 marks)

12 Codes of practice are available for a wide range of animal species.

Explain **two** ways these guidelines can be useful for a pet owner.

1 .....

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2 .....

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(Total for Question 12 = 4 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

13 Provision of exercise and correct feeding are aspects of the five welfare needs.

(a) Give **two** factors to consider when planning the correct diet for an animal.

(2)

1 .....

.....

2 .....

.....

(b) Give **two** reasons why animals require plenty of space in their accommodation.

(2)

1 .....

.....

2 .....

.....

(Total for Question 13 = 4 marks)

14 Zoonotic diseases can be spread from animals to humans.

(a) Give **two** symptoms of ringworm in dogs.

(2)

1 .....

.....

2 .....

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(b) Explain **one** way of maintaining hygiene that should be used when working with animals.

(2)

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(Total for Question 14 = 4 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

15 Bertie is a rabbit suffering from a flea infestation.

Explain **one** consequence of leaving the infestation untreated.

(Total for Question 15 = 2 marks)

16 A new puppy has just been brought home. It needs a lot of care in the first year of its life to meet its health and welfare needs.

Discuss the needs of this animal related to requirements for its accommodation.

(Total for Question 16 = 6 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

17 Different types of worms live in the intestines of animals.

(a) Give **two** ways an animal can be infected by roundworms through indirect contact.

(2)

1 .....

.....

2 .....

.....

(b) Explain **one** reason why roundworm infestation causes weight loss in animals.

(2)

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(Total for Question 17 = 4 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

18 Pet owners are responsible for all aspects of an animal's health and welfare.

(a) Give **one** way vaccinations support animal health.

(1)

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.....

(b) Explain **one** reason for microchipping a pet.

(2)

.....

.....

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.....

(Total for Question 18 = 3 marks)

19 Regular weight monitoring is an important aspect of routine health checks in animals.

Explain **two** ways that sudden weight increase would impact an animal's mobility.

1 .....

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.....

2 .....

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(Total for Question 19 = 4 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

20 Ticks are ectoparasites that can attach themselves to animals and feed off their blood supply.

Explain **two** health issues ticks can cause in animals.

1 .....

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2 .....

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(Total for Question 20 = 4 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

21 Berny is a young dog who is becoming difficult to handle and starting to display signs of aggression.

Rewarding positive behaviour is one method of improving behaviour using operant conditioning.

Evaluate the suitability of using operant conditioning as a method to modify the behaviour of this dog.

(Total for Question 21 = 6 marks)

TOTAL FOR PAPER = 60 MARKS

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

Component 3: Animal Health and Welfare – Sample mark scheme

General marking guidance

- All learners must receive the same treatment. Examiners must mark the first learner in exactly the same way as they mark the last.
- Mark grids should be applied positively. Learners must be rewarded for what they have shown they can do rather than be penalised for omissions.
- Examiners should mark according to the mark grid, not according to their perception of where the grade boundaries may lie.
- All marks on the mark grid should be used appropriately.
- All the marks on the mark grid are designed to be awarded. Examiners should always award full marks if deserved. Examiners should also be prepared to award zero marks if the learner's response is not rewardable according to the mark grid.
- Where judgement is required, a mark grid will provide the principles by which marks will be awarded.
- When examiners are in doubt regarding the application of the mark grid to a learner's response, a senior examiner should be consulted.

Points-Based Mark Scheme Guidance

Points-based mark schemes are made up of:

1. Mark scheme rubric:

   A mark scheme rubric instructs an examiner as to how each mark is awarded.
2. Example responses:

   These demonstrate the type of acceptable responses that a learner might provide and where each mark is awarded.
3. Additional marking guidance:

   This informs examiners about any parameters which should be applied, for example 'accept any other appropriate/alternative responses'.

Applying the points-based mark scheme guidance

Examiners should follow the mark scheme rubric and use the example responses as a guide for the relevance and expectation of the responses. Learners must be credited for any appropriate response. Should learners provide answers that meet the rubric but in an alternative order, credit should be given.

Levels-Based Mark Scheme Guidance

Levels-based mark schemes (LBMS) have been designed to assess learners' work holistically. They consist of two parts:

1. Indicative content:

   Indicative content reflects content-related points that a learner might make but is not an exhaustive list. Nor is it a model answer. Learners may make some or none of the points included in the indicative content as its purpose is as a guide for the relevance and expectation of the responses. Learners must be credited for any appropriate response.

2. Levels-based descriptors:

   Each level is made up of a number of traits which when combined together articulate the quality of response that a learner needs to demonstrate. The traits progress across the levels to demonstrate the different expectations of each level. When using a levels-based mark scheme, the 'best fit' approach should be used.

Applying the levels-based descriptors

Examiners should take a 'best fit' approach to determining the mark.

- Examiners should first make a holistic judgement on which level most closely matches the learner's response. Learners will be placed in the level that best describes their answer. Answers can display characteristics from more than one level, and where this happens markers must use any additional guidance (for example weighting of traits) and their professional judgement to decide which level is most appropriate.
- The mark awarded within the level will be decided based on the quality of the answer and will be modified according to how securely all traits are displayed at that level:
  - marks will be awarded at the top of that level if the learner has evidenced each of the descriptor traits securely.
  - where the response does not securely meet all traits, the marks should be awarded based on how closely the descriptor has been met.

Question Number	Answer	Mark
1	Award **one** mark for the correct response B – Shiny coat	(1)

Question Number	Answer	Mark
2	Award **one** mark for the correct response B – Stress	(1)

Question Number	Answer	Mark
3	Award **one** mark for the correct response A – Virus	(1)

Question Number	Answer	Mark
4	Award **one** mark for the correct response C – Indirect contact	(1)

Question Number	Answer	Mark
5	Award **one** mark for each correct response up to a maximum of **two** marks. A – Companion (1) E – Therapy (1)	(2)

Question Number	Answer	Mark
6	Award **one** mark for each correct response up to a maximum of **two** marks: • (eyes) sunken (1) • showing discharge (1) • cloudy pupils (1) • bloodshot (1) • sight is limited (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
7	Award **one** mark for each correct response up to a maximum of **two** marks: • locating drugs (1) • locating money (1) • finding humans (1) • locating explosives (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
8 (a)	Award **one** mark for a correctly given veterinary method from: • surgery (1) • operation (1) • surgical operation (1) Do not accept: cut them off.	(1)

Question Number	Answer	Mark
8 (b)	Award **one** mark for a correct reason and **one** further mark for a justification of that reason up to a maximum of **two** marks. Marking points may be reversed/given in any order. • Prohibit breeding (1) because they can no longer produce sperm (1) • Adapt behavioural issues/stop roaming/stop spraying (1) because it will stop production of testosterone (1) • To improve lifespan (1) as it reduces risk of testicular cancer/prostate problems (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
9	Award **one** mark for each correctly given physical health check up to a maximum of **two** marks from: • weighing (1) • temperature (1) • mobility (1) • pulse rate (1) • blood pressure (1) • respiratory/breathing rate (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
10	Award **one** mark for each correctly given reason up to a maximum of **two** marks from: • to prevent disease (1) • to reduce smell (1) • promote animal welfare (1) • follow codes of practice/legislation Accept any other appropriate response.	(2)

Question Number	Answer	Mark
11	Award **one** mark for a correct way and **one** further mark for a justification of that way up to a maximum of **two** marks. Marking points may be reversed/given in any order. • Manage breeding programmes (1) to increase population size/diversity (1) • Raise funds (1) to subsidise/provide treatment for animals (1) • Offer adoption packages to the public (1) to protect vulnerable species (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
12	Award **one** mark for each correct way and one further mark for a justification of each way up to a maximum of **four** marks. Marking points may be reversed/given in any order. Justifications may be interchangeable but must only be rewarded once. • Source of information/advice/guidance (on animal care) (1) so that pet owners can provide appropriate care (1) • Sets a minimum standard (1) that ensures consistency in animal care (1) • Guidance on how to comply with legislation (1) to avoid being prosecuted (for breaching animal welfare laws/neglect) (1) Accept any other correct answer.	(4)

Question Number	Answer	Mark
13 a)	Award **one** mark for each correctly given factor up to a maximum of **two** marks from: • provide correct amount of food (1) • correct food type (1) • provide balanced amount of nutrients (1) • appropriate number of feeds per day (1) • life stage of the animal (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
13 b)	Award **one** mark for each correctly given reason up to a maximum of **two** marks from: • to reduce risk of injury (1) • space to display their normal behaviour (1) • to reduce stress (1) • to allow for enrichment (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
14 a)	Award **one** mark for each correctly given symptom up to a maximum of **two** marks from: • patchy hair loss (1) • itchiness to affected areas (1) • ring-shaped rash/red circular lesions (1) • crusty/flaky skin (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
14 b)	Award **one** mark for a correct way and **one** further mark for a justification of that way up to a maximum of **two** marks. Marking points may be reversed/given in any order. • Washing hands (1) to prevent the spread of infection (1) • Cleaning equipment (1) to prevent build-up of micro-organisms (1) • Keep workspace clean (1) to prevent spread of infection (1) • Use disinfectants (1) to kill micro-organisms (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
15	Award **one** mark for a correct consequence and **one** further mark for a justification of that consequence up to a maximum of **two** marks. Marking points may be reversed/given in any order. • Causes itching/scratching (1), which can break the skin/cause bacterial infection (1) • Cause discomfort to animal (1), which can lead to stress (1) • A loss of coat condition (1) because the fleas will multiply (1) • Causing anaemia (1) because the fleas will feed off rabbit's blood (1) • Other animals could be affected (1) because it will be a continuing source of infection (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
16	Responses will be credited according to the learner's demonstration of knowledge and understanding of the material, using the indicative content and level descriptors below. The indicative content that follows is not prescriptive. Responses may cover some or all indicative content, but learners should be rewarded for other relevant responses. • Appropriate housing suitable for the animal size and allow for its basic needs to be met. • Provision of enrichment toys to reduce boredom and lower anxiety levels during the first few weeks • Change accommodation, increasing space over the year. • Security of accommodation – ensure puppy can't escape • Keep puppy warm and dry • Details of the five welfare needs • Details of the accommodation, including the suitability of its construction materials linked to preventing injury.	(6)

Level	Mark	Descriptor
Level 0	0	No rewardable content
1	1–2	• Demonstrates isolated knowledge and understanding, there will be major gaps or omissions. • Few of the points made will be relevant to the context in the question. • Limited discussion which contains generic assertions rather than considering different aspects and the relationship between them.
2	3–4	• Demonstrates some accurate knowledge and understanding, with only minor gaps or omissions. • Some of the points made will be relevant to the context in the question, but the link will not always be clear. • Displays a partially developed discussion which considers some different aspects and some consideration of how they interrelate, but not always in a sustained way.
3	5–6	• Demonstrates mostly accurate and thorough/detailed knowledge and understanding. • Most of the points made will be relevant to the context in the question, and there will be clear links. • Displays a well-developed and logical discussion which clearly considers a range of different aspects and considers how they interrelate, in a sustained way.

Question Number	Answer	Mark
17 a)	Award **one** mark for each correctly given way up to a maximum of **two** marks from: • can be passed from mother to offspring (1) • can be passed through the placenta/mothers milk (1) • eating an infected animal (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
17 b)	Award **one** mark for a correct reason and **one** further mark for a justification of that reason up to a maximum of **two** marks. Marking points may be reversed/given in any order. • The animal does not gain nutrients from food (1) because worms consume the nutrients (1) • The animal cannot absorb nutrients through the digestive system (1) because the worms damage the intestinal lining (1) • The animal may suffer from diarrhoea (1) because the worms damage the digestive system (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
18 a)	Award **one** mark for a correctly given way from: • boost immune system (1) • create antibodies to fight disease (1) • reduce chances of contracting disease (1) Accept any other appropriate response.	(1)

Question Number	Answer	Mark
18 b)	Award **one** mark for a correct reason and **one** further mark for a justification of that reason up to a maximum of **two** marks. Marking points may be reversed/given in any order. • Lost pets can be returned to owner (1) as owners' details can be found easily on the microchip (1) • Avoids pet becoming homeless/reduces need for rehoming (1) because more pets can be reunited with original owners (1) Accept any other appropriate response.	(2)

Question Number	Answer	Mark
19	Award **one** mark for each correct way and **one** further mark for a justification of each way up to a maximum of **four** marks. Marking points may be reversed/given in any order. Justifications may be interchangeable but must only be rewarded once. • Can cause lameness (1) due to increased pressure on bones and joints (1) • Can affect breathing rate/cause breathlessness (1) because of increased pressure on lungs (1) • Can cause heart attack (1) due to increased pressure on the heart (1) • Can cause a reluctance to move (1), which reduces exercise taken (1) Accept any other appropriate response.	(4)

Question Number	Answer	Mark
20	Award **one** mark for each correct way and **one** further mark for a justification of each way up to a maximum of **four** marks. Marking points may be reversed/given in any order. Justifications may be interchangeable but must only be rewarded once. • A reduced appetite (1) leading to animal becoming increasingly lethargic (1) • Small lumps under the skin (1) resulting in a loss of coat condition (1) • Loss of muscle movement (1) resulting in weakness of limbs (1) • Regurgitation of food (1) leading to increase in vomiting (1) • Difficulty in eating (1) leading to loss of condition (1) • Develop Lyme disease (1) due to the tick head being in the animal's body (1) Accept any other appropriate response.	(4)

Question Number	Answer	Mark
21	Responses will be credited according to the learner's demonstration of knowledge and understanding of the material, using the indicative content and level descriptors below. The indicative content that follows is not prescriptive. Responses may cover some or all indicative content, but learners should be rewarded for other relevant responses. Responses may include reference to: • operant conditioning, for example clicker training, rewarding, dog treats. Strengths: • shows a positive change in behaviour • speed of behaviour change • ensures easier handing of dog • appropriate way to reduce aggression • reinforcing the good behaviour • link the desired results seen it has becoming learnt behaviour. Weaknesses: • behaviours can easily be forgotten • can lead to the animal becoming scared and increase the aggressive behaviour • can cause issues with raising anxiety levels.	(6)

Level	Mark	Descriptor
Level 0	0	No rewardable content
1	1–2	• Demonstrates isolated elements of knowledge and understanding, there will be major gaps or omissions. • Few of the points made will be relevant to the context in the question. • Limited evaluation which contains generic assertions leading to a conclusion that is superficial or unsupported.
2	3–4	• Demonstrates some accurate knowledge and understanding, with only minor gaps or omissions. • Some of the points made will be relevant to the context in the question, but the link will not always be clear. • Displays a partially developed evaluation which considers some different competing points, although not always in detail, leading to a conclusion which is partially supported.
3	5–6	• Demonstrates mostly accurate and thorough/detailed knowledge and understanding. • Most of the points made will be relevant to the context in the question, and there will be clear links. • Displays a well-developed and logical evaluation which clearly considers different aspects and competing points in detail, leading to a conclusion that is fully supported.

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